

**Name of Work :- Remaining work of Resurfacing & Strengthening to Various Roads of Virpur Taluka under S.R. 2022- 2023.  
Package No. 2 (Total 5 Roads of 5.70 Km.)**

**SCHEDULE FOR TESTING OF MATERIALS**

For ensuring quality control and workmanship, various tests prescribed below for materials shall be taken at periodical intervals as stipulated below.

The material should be tested in GERI or Private laboratory approved by Govt. of Gujarat. Bill for testing charges should be paid Govt.

Item No. as per Schedule 'B'	Brief Description of materials to be tested.	Qty. of Materials	Unit	Prescription of test which shall be carried out	Frequency @ which test shall be carried out	Total Nos of test to be taken
1	2	3	4	5	6	7
1	B.T. metal 45mm to 63mm	1313.62	Cum	*Gradation test	1 to 100 - cum. 1 test	5
				*Impact Value	100 to 500 - cum. 3 test	
				*Flakiness Index of	500 to 1500 - cum. 5 test	
2	B.T. chips 25 to 40 mm	429.20	Cum	*Gradation test	1 to 100 - cum. 1 test	3
				*Impact Value	100 to 500 - cum. 3 test	
				*Flakiness Index of	500 to 1500 - cum. 5 test	
					1500 to 5000 - cum. 7 test	
3	B.T. chips 10mm to 20mm	142.00	Cum	*Gradation test	1 to 100 - cum. 1 test	3
				*Impact Value	100 to 500 - cum. 3 test	
				*Flakiness Index of	500 to 1500 - cum. 5 test	
					1500 to 5000 - cum. 7 test	
4	B.T. chips 6mm to 10mm	137.34	Cum	*Gradation test	1 to 100 - cum. 1 test	3
				*Impact Value	100 to 500 - cum. 3 test	
				*Flakiness Index of	500 to 1500 - cum. 5 test	
					1500 to 5000 - cum. 7 test	
5	B.T. Kapchi 12mm	265.58	Cum	*Gradation test	1 to 100 - cum. 1 test	3
				*Impact Value	100 to 500 - cum. 3 test	
				*Flakiness Index of	500 to 1500 - cum. 5 test	
					1500 to 5000 - cum. 7 test	
6	B.T. chips 13.2mm	280.24	Cum	*Gradation test	1 to 100 - cum. 1 test	3
				*Impact Value	100 to 500 - cum. 3 test	
				*Flakiness Index of	500 to 1500 - cum. 5 test	

Item No. as per Schedule 'B'	Brief Description of materials to be tested.	Qty. of Materials	Unit	Prescription of test which shall be carried out	Frequency @ which test shall be carried out	Total Nos of test to be taken
1	2	3	4	5	6	7
					1500 to 5000 - cum. 7 test	
7	B.T. Grit 6mm	351.65	Cum	*Gradation test	1 to 100 - cum. 1 test	3
				*Impact Value	100 to 500 - cum. 3 test	
				*Flakiness Index of	500 to 1500 - cum. 5 test	
					1500 to 5000 - cum. 7 test	
8	Supplying of Hard murrum	1323.00	Cum	*Gradation,CBR	One test per work	One test per work
9	Supplying of Sand	104.00	Cum	*Silt Content,F.M	One test per work	"
10	Stonedust	140.12	Cum	*Gradation	One test per work	"
11	Selected Soil for Embankment	0.00	Cum	P.I ,CBR,MDB		-
12	Natural GSB	0.00	Cum	*Gradation,P.I,CBR		"
13	Asphalt (VG-30)	52.40	M.T.	Viscosity Test	Tanker test in Geri Lab. Only	4
				as per I.S. 1206	Up to 10 1	
					11 to 20 2	
					20 to 50 3	
					Above 50 one per Tanker	
				Ductility Test	As per I.S. 1208	
				Specification Gravity test	As per I.S. 1202	
				Softening point test	As per I.S. 1204	
				Quality of binder test	3 test per 2 tankers on plant site.	
14	Tack Coat		Sqmt	*Binder Temperature for application	Irregular close in intervals	
				*Rate of spread of Binder.	2 test per Day.	
15	Carpet & Seal Coat. Mix			Grading	One Test on Individual	
				Temperature of binder in Boiler aggregates in the dryer and mix at the time of laying and rolling. (Binder content vide 45/MD. 2172)	Constituents and mixed aggregates from the dryer for each 100 tonnes of mix subject to minimum of Two tests per plant per day. One Test for each 100 tones of mix subjects to minimum of two per Day.	
				Rate of Spreaded mix materials.	Regular control through checks on layer thickness.	
16	Cement (OPC)	84.00	M.T.	*Consistency,Soundness	1 test @ 50.0 M.T. 100 T 2 tests,	1

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1	2	3	4	5	6	7
				*Setting time, Fineness Test	200 T 3 tests, 300 T 4 tests, 500 T 5 tests,	
				*Compressive Strength.	800 T 6 tests, 1300 T 7 tests & 8 tests for large consignment.	
17	Steel (TMT)	1.60	M.T.	*Tensile, (TMT)	As per Manual of Quality Control	1
				Yield	1 test/40 tonnes / per category	
				*Elongation		
				Size		
18	C.C.Cube Test 1:2:4			*Compressive Strength.	1 to 5 cmt - 1 No	
	M-100	83.94			6 to 15 cmt - 2 No	5
	M150	61.43			16 to 20 cmt - 3 No	5
	M 1:2:4	0.00			20 to 50 cmt - 4 No	0
	M-250	113.00			51 to above - 4 +1 additional sample for each 50 cu.mt. Or part there of.	6
19	Retro Reflective Sheeting for the signage	113.00	Nos.	as per Test schedule attached GR SOR/1018/715/Part file/C-1 Dtd.4/6/19		
20	Road studs / Cat Eyes	736.00	Nos.	as per Test schedule attached GR SOR/1018/715/Part file/C-1 Dtd.4/6/19		
21	Hot Applied Thermoplast Road Marking	1670.00	Sqmt	as per Test schedule attached GR SOR/1018/715/Part file/C-1 Dtd.4/6/19		
22	Water			as per source 1 test for each source		1

**Note (1) :- In case of excess in quantity. Further more test shall be carried out as per required frequency.**

**Note (2) :- Apart from above listed materials for carrying out various tests during Road / Structure Construction works, if any other than above mentioned material/s are to be used during road / structure construction work then it must be tested as per prevailing criteria of Govt. of Gujarat (R & B Deptt.) and necessary tests should be carried out as per prevailing norms.**

Signature of Contractor

Deputy Executive Engineer  
Panchayat (R & B) Sub Division  
Balasinor

Executive Engineer  
Panchayat (R & B) Division  
Mahisagar (Lunawada)